



Red Bluff Mine No. 1

1. Location/Land Status: The Red Bluff Mine is located on land owned by the New Mexico State Land Office, as well as private land, within Sections 30, 31, and 36, T13N, R10W on the USGS Dos Lomas quadrangle, some 10 miles north of Milan, NM. Physical access to the mine can be gained by traveling north from Milan, NM on NM 605 eleven miles to Haystack Road, west approximately 0.5 miles to a locked gate on the south side of the road, then via foot 0.3 miles south to the mine site.

2. Human Activity: No evidence of human activity was noted. There is a structure to the east of NM 605 approximately one mile east of the site.

3. Radiological Survey: Radiological survey results were as follows: ground surface maximum of 36 $\mu\text{R}/\text{hour}$ and minimum of 10 $\mu\text{R}/\text{hour}$. Four-foot elevation maximum was 34 $\mu\text{R}/\text{hour}$ and minimum was 10 $\mu\text{R}/\text{hour}$. Background radiation level is approximately 10 $\mu\text{R}/\text{hour}$.

4. Mine Disturbance: The mine consists of an open excavation approximately 500 ft. by 200 ft. by 8 ft. deep. There are approximately 50 rock piles due north the excavation with an estimated volume of 1,500 cubic yards. These piles are on private land. The site is also marked by several excavations which may or may not be associated with the uranium mine. The largest of these excavations is inside the arroyo north of the mine site and covers an area of approximately 25 acres. This excavation is also on private land. Additional data was not collected on features on private land.

5. Plant Community: The surrounding area is characteristically mixed pinon-juniper and grass, including: 30% grass, 10% forbs, 20% shrub, and 40% bare earth. The vegetation on site is completely bare within the excavation and 30% overgrown on the rock piles.

6. Soils: Soils at the site are Rock outcrop-Vessilla complex with, 35 to 70 percent slopes, 0 to 5 inches fine sandy loam, 5 to 60 inches unweathered bedrock

7. Wildlife: No signs of wildlife were noted.

8. Land Use: Land use is light to moderate grazing.

9. Off-Site Impacts: No off-site impacts were noted.

10. Topographic Features: The site is on top of a mesa, with the mesa slope to the south. The site displays no notable erosional features.

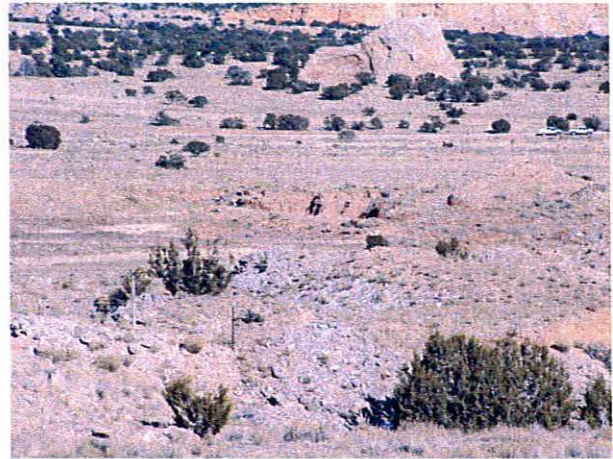
11. Hydrogeology: Based on a review of the NMOSE iWaters database, there are three well records within a one mile search radius. Of these records, two have depth to water recorded. Both wells, located approximately 0.8 miles to the northeast and 0.9 miles to the

north, have depth to water recorded at 280 feet. The third well is located approximately 0.7 miles northwest of the site.

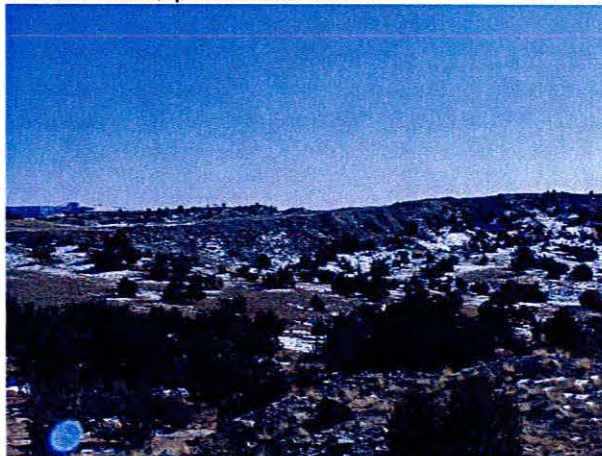
The nearest surface water drainage feature is approximately 0.9 miles south of the site, below the mesa on which the site sits.



View north, piles and cut



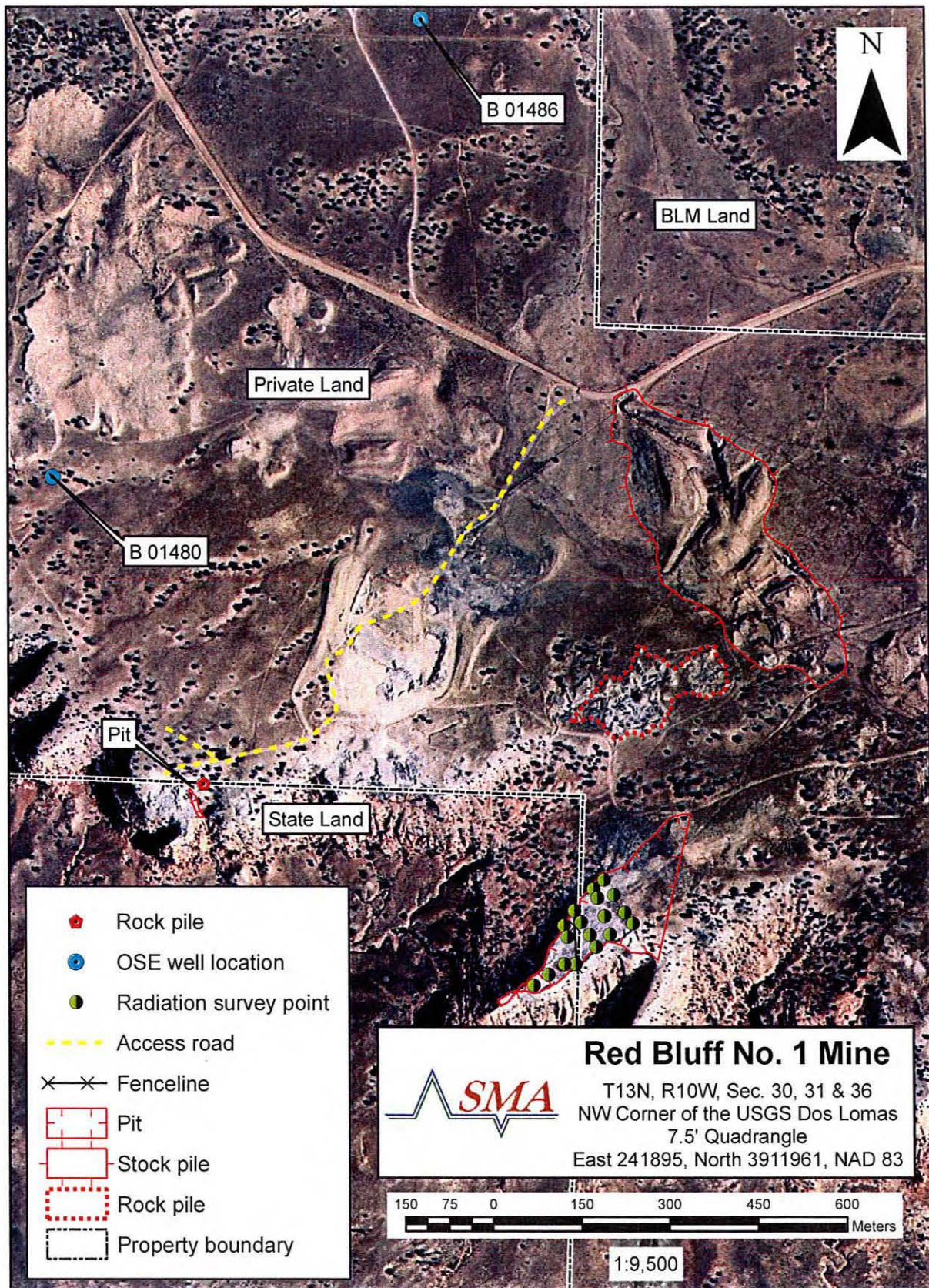
View north, piles, cut, access road



View east at primary disturbance



Overall view



AUM Field Survey Data Sheet

Site

Red Butte No 1 (second visit)

Date <u>2/11/06</u>	Time On-Site <u>8:35am</u>	Time Off-Site <u>10:21</u>	By <u>Tim Roes</u> <u>& Brian Mertz</u>	
Weather Conditions: <u>clear, cool, peeling snow</u>				
Disturbances	GPS#	Description	Dim/Area/Volume	Photo #'s
Shafts				
Adits				
Pits				
Waste Rock Dumps				
Tailings				
Trenches				
Roads				
Erosional Features				
Structures / Equipment	GPS#	Description	Dimensions	Photo #
Buildings				
Headframes				

Site _____

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AUM Field Survey Data Sheet

Site _____

[illegible]

P1

SE Disturbance. Bladed limestone
w/ waste rock pushed over
contour edge. $\sim 3/4$ acre

P2

SW Disturbance. Bladed limestone
w/ waste rock pushed over
contour edge. $\sim 3/10$ acre

P4

S Disturbance. Bladed limestone
w/ waste rock pushed over
contour edge ~ 1 acre

P3

Waste pile $\sim 18 \text{ m}^3$

Storage, loading, &/or exploration
 ~ 70 piles $\sim 15 \text{ m}^3$

SUBJECT

Red Bluff Mine

PROJECT

PAGE

CLIENT

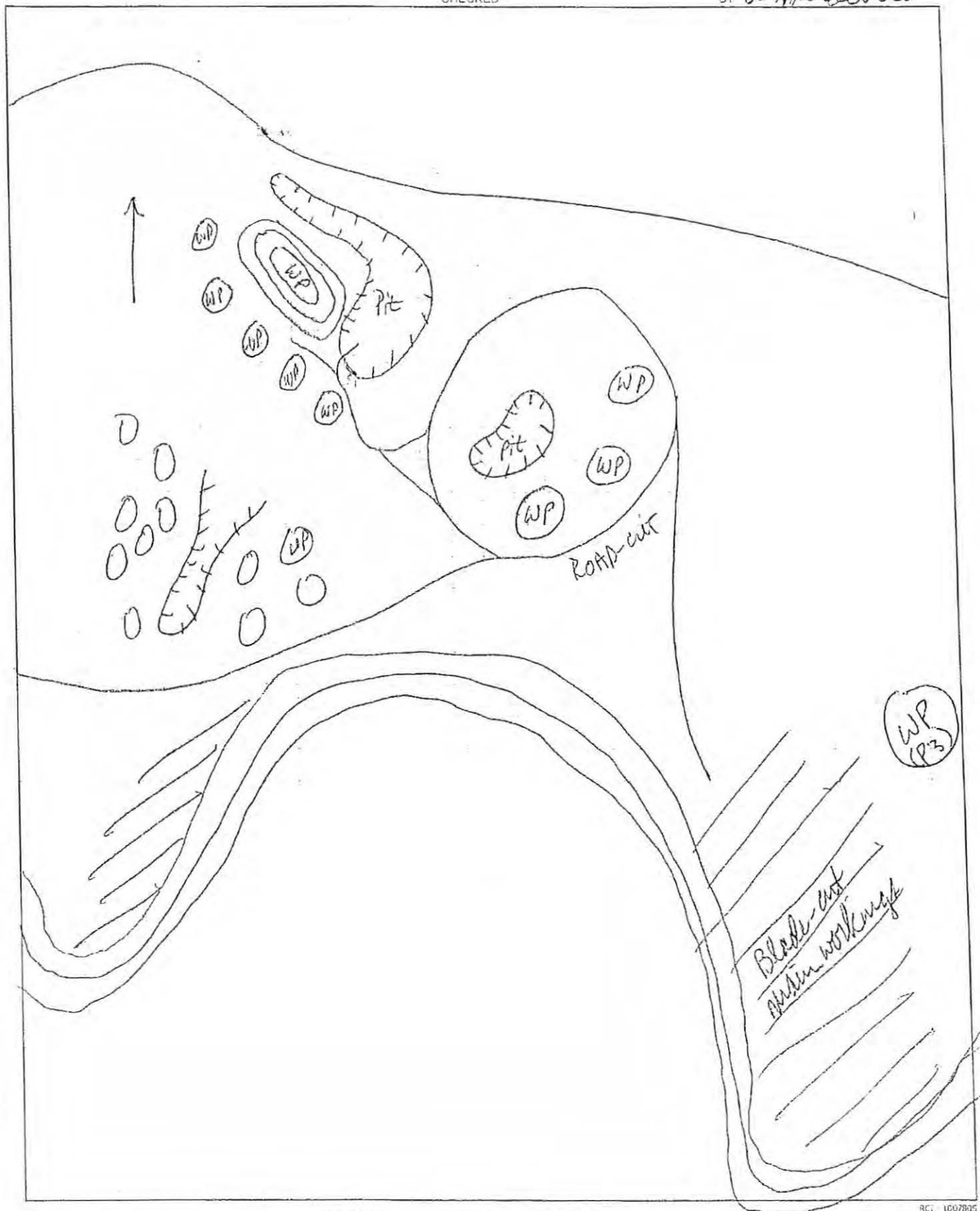
DATE

BY

CHECKED

BY

W. Baldwin



RCI 1007895

AUM Field Survey Data Sheet

Site AUM - Red Bluff 2008-3-5

Radiological Survey			
GPS#	Description	Reading Surface	Reading 4 feet
G0	Rad. survey ✓	12	10
G1	"	18	16
G2	"	36	34
G3	" ✓	26	24
G4	" ✓	16	14
G5	"	36	30
G6	"	24	22
G7	" ✓	12	12
G8	" ✓	14	12
G9	"	26	20
G10	"	14	12
G11	" ✓	30	28
G12	" ✓	24	20
G13	"	12	12
G14	" ✓	12	12
G15	" ✓	10	10
G16	" ✓	12	10

